

REGENERATING TREATMENT OF CATALYST

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Abstract

PURPOSE: To recover the activity of catalysts for wet oxidation of waste water contg. COD components, suspended solids, ammonia, etc. and to regenerate said catalysts in the stage of regenerating said catalysts by treating the catalysts with an aq. soln. of formic acid or oxalic acid or heating said aq. soln. or adding strong acids thereto.

CONSTITUTION: Catalysts consisting of Fe, Co, Ni, Ru, Rh, Ir and other metals or 1 or ≥ 2 kinds compds. consisting of oxides, chlorides or sulfides insoluble or hard to dissolve in water of these metals are used as catalysts for wet oxidation treatments of waste water contg. COD components, suspended solids and ammonia. When the activity of the catalysts decreases, the catalysts are dipped in an aq. soln. of formic acid or oxalic acid of 0.1-5.0 normal concn. and at 40- 85 deg.C. Or the aq. soln. is heated to at least 75-85 deg.C, or strong acids such as sulfuric acid, hydrochloric acid and nitric acid are added thereto to generate gaseous H₂ and CO, by which a reduction treatment is applied to the catalysts and the catalytic activity thereof is recovered.

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